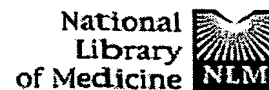


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1: Nature. 1985 Jun 20-26;315(6021):680-3.

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## Production of transgenic rabbits, sheep and pigs by microinjection

Hammer RE, Pursel VG, Rexroad CE Jr, Wall RJ, Bolt DJ, Ebert KI, Palmer RD, Brinster RL.

Direct microinjection has been used to introduce foreign DNA into a number of terminally differentiated cell types as well as embryos of several species including sea urchin, *Candida elegans*, *Xenopus*, *Drosophila* and mice. Various genes have been successfully introduced into mice including constructs consisting of mouse metallothionein-I (MT) promoter/regulator region fused to either the human growth hormone (hGH) structural genes. Transgenic mice harbouring these genes commonly exhibit high, metal-inducible levels of the fusion messenger RNA in several organs, substantial quantities of the foreign growth hormone in serum and enhanced growth. In addition, the gene is stably incorporated into the germ line, making the phenotype heritable. Because of the scientific importance and potential economic value of transgenic livestock containing foreign genes, we initiated studies on large animals by microinjecting the fusion gene, MT-I-hGH, into the pronuclei or nuclei of eggs from superovulated rabbits, sheep and pigs. We report here integration of the gene in all three species and expression of the transgenic rabbits and pigs.

PMID: 3892305 [PubMed - indexed for MEDLINE]

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Applicants: Hermona Soreq et al.  
Serial No. : 09/310,638  
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